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APPLICATION NO.	6 FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/467,509	12/20/1999	DAVID L. Hecht	07447.0004-0	2485
7	590 12/31/2003	EXAMINER		
	CUMENTATION CE	LAFORGIA, CHRISTIAN A		
XEROX CORPORATION 100 CLINTON AVENUE S., XEROX SQ. 20TH FLOOR			ART UNIT	PAPER NUMBER
			2131	- Ot
ROCHESTER,	NY 14644		DATE MAILED: 12/31/2003	,

Please find below and/or attached an Office communication concerning this application or proceeding.



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· -		Applica	ation No.	Applicant(s)	- A				
		09/467	,509	HECHT ET AL.	O				
Office Action Summary		Examin	ier	Art Unit					
			n La Forgia	2131					
Period fo	The MAILING DATE of this communic or Reply	ation appears on t	the cover sheet wi	th the correspondence addres	s				
THE - Exte after - If the - If NO - Failu - Any	ORTENED STATUTORY PERIOD FO MAILING DATE OF THIS COMMUNIO msions of time may be available under the provisions of SIX (6) MONTHS from the mailing date of this commust period for reply specified above is less than thirty (30) period for reply is specified above, the maximum stature to reply within the set or extended period for reply well received by the Office later than three months after a patent term adjustment. See 37 CFR 1.704(b).	ATION. f 37 CFR 1.136(a). In no nication. days, a reply within the surtory period will apply and ill, by statute, cause the a	event, however, may a restatutory minimum of thirty divill expire SIX (6) MON application to become AB.	eply be timely filed (30) days will be considered timely. THS from the mailing date of this commur ANDONED (35 U.S.C. § 133).	nication.				
1)⊠	Responsive to communication(s) filed	on <u>17 March 200</u>	<u>)3</u> .						
2a) <u></u> ☐	This action is FINAL . 2b)⊠ This action is	non-final.						
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.								
Dispositi	on of Claims								
5)□ 6)⊠ 7)□	 Claim(s) 1-24 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. Claim(s) is/are allowed. Claim(s) 1-24 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or election requirement. 								
,	on Papers	on and/or election	rrequirement.						
9)⊠ 10)⊠	The specification is objected to by the The drawing(s) filed on 20 December Applicant may not request that any object Replacement drawing sheet(s) including the oath or declaration is objected to	1999 is/are: a)⊠ ion to the drawing(s he correction is req) be held in abeyan uired if the drawing(ce. See 37 CFR 1.85(a). s) is objected to. See 37 CFR 1.	121(d).				
,	under 35 U.S.C. §§ 119 and 120	by the Examiner.	Note the attached	Office Action of John 1 10-18	<i>3</i> 2.				
12)	Acknowledgment is made of a claim for the priority described to a claim for the priority described to a claim for the priority described to a copies of the priority described to a copies of the certified copies of application from the Internation of the attached detailed Office action acknowledgment is made of a claim for the copies of the certified copies of a claim for the copies of the priority described action application from the Internation of the action for the copies of the priority described action of the foreign language.	ocuments have be ocuments have be fithe priority documents all Bureau (PCT Refor a list of the cent domestic priority in the first sentent auage provisional and domestic priority	een received. een received in Apments have been ule 17.2(a)). rtified copies not under 35 U.S.C. ce of the specifical	oplication No received in this National Stag received. § 119(e) (to a provisional app ation or in an Application Data een received. §§ 120 and/or 121 since a sp	elication) a Sheet. ecific				
Attachmen	t(s)								
2) Notic	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PT mation Disclosure Statement(s) (PTO-1449) Pag		_	ummary (PTO-413) Paper No(s) formal Patent Application (PTO-152)					

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DETAILED ACTION

1. Claims 1 through 24 are presented for examination.

Drawings

2. The informal drawings filed in this application are acceptable for examination purposes. When the application is allowed, applicant will be required to submit new formal drawings.

Specification

- 3. The use of the trademark Xerox has been noted in this application. It should be capitalized wherever it appears and be accompanied by the generic terminology.
- 4. Although the use of trademarks is permissible in patent applications, the proprietary nature of the marks should be respected and every effort made to prevent their use in any manner which might adversely affect their validity as trademarks.

Claim Rejections - 35 USC § 112

5. Where applicant acts as his or her own lexicographer to specifically define a term of a claim contrary to its ordinary meaning, the written description must clearly redefine the claim term and set forth the uncommon definition so as to put one reasonably skilled in the art on notice that the applicant intended to so redefine that claim term. *Process Control Corp. v. HydReclaim Corp.*, 190 F.3d 1350, 1357, 52 USPQ2d 1029, 1033 (Fed. Cir. 1999). The term "storage media/medium" in claims 1 through 24 is used by the claim to mean "paper", while the accepted meaning in the art is "a magnetic or optical storage device, such as a hard disk, ROM, RAM, CD-ROM, floppy disk, etc." The term is indefinite because the specification does not clearly redefine the term. The Examiner would like to point out that where applicant acts as his or her own lexicographer to specifically define a term of a claim contrary to its ordinary

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meaning, the written description must clearly redefine the claim term and set forth the uncommon definition so as to put one reasonably skilled in the art on notice that the applicant intended to so redefine that claim term, see MPEP § 608.01(o). Process Control Corp. v. HydReclaim Corp., 190 F.3d 1350, 1357, 52 USPO2d 1029, 1033 (Fed. Cir. 1999). In addition to using the term storage media/medium in a manner contrary to its ordinary meaning, the Applicant fails to meet the requirements of redefining a term as set forth in the MPEP § 2106. In order to define/redefine a term, the Applicant must do so "with reasonable clarity, deliberateness, and precision" and must "set out his uncommon definition in some manner within the patent disclosure' so as to give one of ordinary skill in the art notice of the change" in meaning. The Applicant fails to clearly, deliberately and precisely define the term storage media/medium by citing "comprising a storage medium, such as plain paper (see Specification page 2)," in this definition it is unclear whether a storage media/medium is limited to paper or encompasses the commonly accepted art definition which includes magnetic and optical storage devices. Furthermore, the Applicant fails to set out the uncommon definition in the instant application's disclosure. In the instant application, the Applicant merely defines the storage media/medium as an example on page 2 of the Specification.

Claim Rejections - 35 USC § 102

6. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

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7. Claims 1 through 10 and 12 through 24 are rejected under 35 U.S.C. 102(e) as being anticipated by U.S. Patent No. 6,457,651 to Paul et al., hereinafter Paul.

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- 8. The applied reference has a common assignee with the instant application. Based upon the earlier effective U.S. filing date of the reference, it constitutes prior art under 35 U.S.C. 102(e). This rejection under 35 U.S.C. 102(e) might be overcome either by a showing under 37 CFR 1.132 that any invention disclosed but not claimed in the reference was derived from the inventor of this application and is thus not the invention "by another," or by an appropriate showing under 37 CFR 1.131.
- 9. As per claim 1, Paul teaches a record for storing encoded information comprising: a storage medium (column 2, lines 57-63);

first marks on said storage medium having a covert code characteristic, said first marks conveying a covertly marked code (Figures 2 [block 16], 3 [block 18]; column 4, lines 19-29); and

second marks on said medium that convey an overtly marked code useful in decoding said covertly marked code (Figures 2 [block 10a], 3 [block 10b]; column 1, lines 34-42; column 2, lines 51-56; column 4, lines 19-29). Wherein the second marks are drawn to the bar code, and they are useful in decoding the covertly marked code by providing an area in which the glyphs could be printed.

10. Regarding claims 2 and 14, Paul teaches wherein said second marks have an overt code characteristic (Figures 2 [block 10a], 3 [block 10b]; column 1, lines 34-42; column 2, lines 51-56; column 4, lines 19-29).

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11. With regards to claims 3 and 15, Paul teaches wherein said covert code characteristic is a

chemical taggant and said overt code characteristic is an optically visible state of a glyph

(column 6, lines 29-43; column 7, lines 11-16). Wherein the chemical taggant is drawn to the

different colors used for the glyphs.

12. Regarding claims 4 and 16, Paul teaches wherein said covert code characteristic of said

first marks is visibly undetectable (column 2, lines 44-56).

13. Regarding claims 5 and 17, Paul teaches wherein said covert code characteristic of said

first marks does not affect the appearance of said first and second marks (column 5, lines 17-57).

14. Regarding claims 6 and 18, Paul teaches wherein said first and second marks are glyphs

(column 7, lines 11-16)

15. With regards to claims 7 and 21, Paul teaches wherein said covertly marked code

contains authentication data (column 8, lines 3-8).

16. Regarding claims 8 and 19, Paul teaches wherein said first marks are comprised of a first

and a second set of marks, and only said second set of marks convey said covertly marked code

(column 6, lines 35-40).

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- 17. With regards to claims 9 and 20, Paul teaches wherein said overtly marked code identifies the location of said second set of marks (column 2, lines 51-56; column 4, lines 19-29).
- Regarding claims 10 and 22, Paul teaches wherein said first and second marks at least in part comprise the same marks, with said same marks having both a visibly undetectable covert code characteristic and a visibly detectable overt code characteristic (Figures 2 [block 10a], 3 [block 10b]; column 1, lines 34-42; column 2, lines 51-56; column 4, lines 19-29).
- 19. Regarding claim 11, Paul teaches further including third marks storing at least a portion of said encoded information, said third marks being distributed among said first and second marks (column 6, lines 35-40).
- 20. As per claim 12, Paul teaches a method for storing encoded information on a storage medium comprising the steps of:

placing first marks on said medium having a covert code characteristic, said first marks conveying a covertly marked code (Figures 2 [block 16], 3 [block 18]; column 4, lines 19-29); and

placing second marks on said medium adapted to convey an overtly marked code useful in decoding said covertly marked code (Figures 2 [block 10a], 3 [block 10b]; column 1, lines 34-42; column 2, lines 51-56; column 4, lines 19-29). Wherein the second marks are drawn to the bar code, and they are useful in decoding the covertly marked code by providing an area in which the glyphs could be printed.

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21. Regarding claim 13, Paul teaches wherein said second marks include at least a subset of said first marks (column 7, lines 11-16).

- 22. Regarding claim 23, Paul teaches wherein the first and second marks are applied via trilevel xerography (Figure 4; column 6, lines 14-43).
- 23. As per claim 24, Paul teaches a method of storing encoded information on a storage medium comprising the steps of:

placing a plurality of visible marks on said medium (Figure 4; column 2, lines 57-63);

placing a covert code characteristic on a select first set of said marks, at least a subset of said first sets defining covert information (Figures 2 [block 16], 3 [block 18]; column 4, lines 19-29); and

wherein at least some of said visible marks are designed to assist in encoding said covert information (Figures 2 [block 10a], 3 [block 10b]; column 1, lines 34-42; column 2, lines 51-56; column 4, lines 19-29). Wherein the visible marks are drawn to the bar code, which assist in encoding the covert information by hiding it from the naked eye.

Conclusion

- 24. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
- 25. The following patents are cited to further show the state of the art with respect to the general state of the use of glyphs, such as:

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United States Patent No. 5,128,525 to Stearns et al., which is cited to show decoding

glyph shape codes.

United States Patent No. 5,168,147 to Bloomberg, which is cited to show decoding glyph

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shape codes.

United States Patent No. 6,000,613 to Hecht et al., which is cited to show encoding

glyphs.

United States Patent No. 6,427,920 to Bloomberg et al., which is cited to show masking

of embedded digital data.

United States Patent No. 5,951,055 to Mowry, Jr., which is cited to show a security

document containing encoded block data.

United States Patent No. 4,943,239 to Koslin, which is cited to show test and answer

score sheet.

United States Patent No. 6,663,008 to Pettersson et al., which is cited to show a coding

pattern.

26. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Christian La Forgia whose telephone number is (703) 305-7704.

The examiner can normally be reached on Monday thru Thursday 7-5.

27. If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Ayaz Sheikh can be reached on (703) 305-9648. The fax phone number for the

organization where this application or proceeding is assigned is (703) 746-7240.

28. Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the receptionist whose telephone number is (703) 305-3900.

GREGORY MORSE

SUPERVISORY PATENT EXAMINER

TECHNOLOGY CENTER 2100

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Christian LaForgia Patent Examiner Art Unit 2131

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